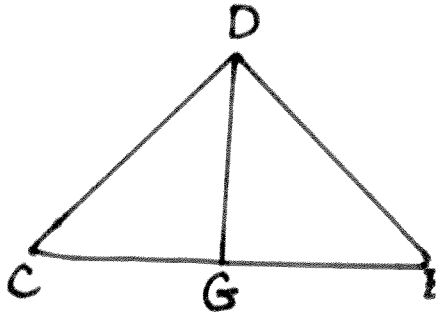
Assignment

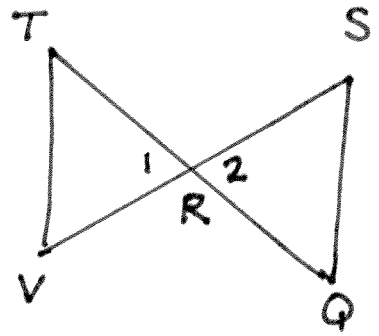
Determine whether $\triangle ABC \cong \triangle XYZ$. Explain.

1. A(5,2), B(1,5), C(0,0), X(-3,3), Y(-7,6), Z(-8,1)

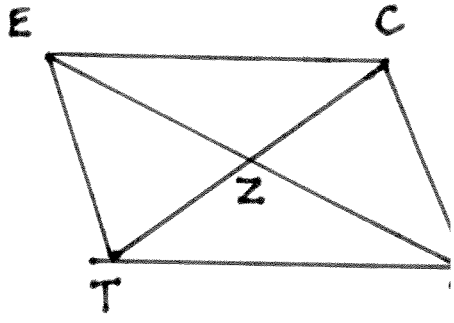
2. Given: $\triangle CDE$ is isosceles
   G is the midpoint of $\overline{CE}$
   Prove: $\triangle CDG \cong \triangle EDG$



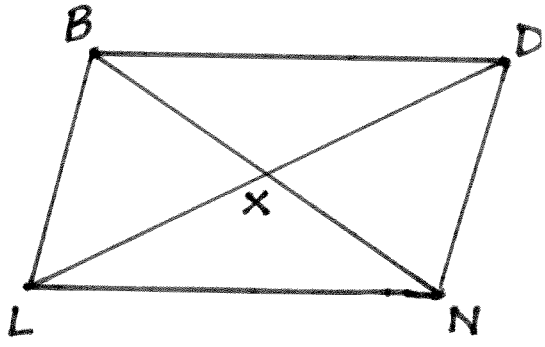
3. Given: $\angle V \cong \angle S$; $\overline{TV} \cong \overline{QS}$
   Prove: $\overline{VR} \cong \overline{SR}$



4. Given: Z is the midpoint of CT
   $\overline{CY} \parallel \overline{TE}$
   Prove: $\overline{YZ} \cong \overline{EZ}$

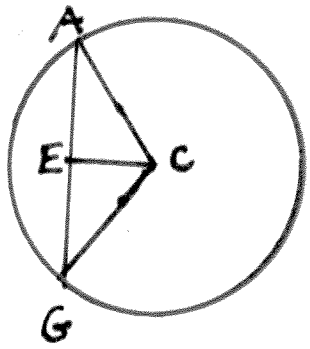


5. Given: $\overline{DL}$ bisects $\overline{BN}$,
   $\angle XLN \cong \angle XBD$
   Prove: $\overline{LN} \cong \overline{DB}$



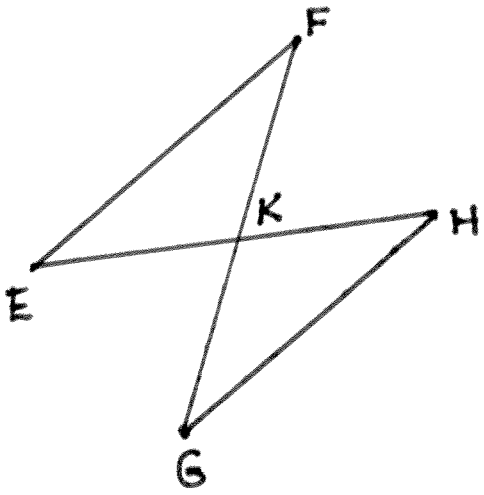
6. Given: $\overline{AC} \cong \overline{GC}$
$\overline{EC}$ bisects $\overline{AG}$

Prove: $\triangle GEC \cong \triangle AEC$



7. Given: $\overline{EF} \parallel \overline{GH}$, $\overline{EF} \cong \overline{GH}$

Prove: $\overline{EK} \cong \overline{KH}$



8. Given: $\overline{DE} \parallel \overline{JK}$; $\overline{DK}$ bisects $\overline{JE}$

Prove: $\triangle EGD \cong \triangle JGK$